



HUMBOLDT BAY MUNICIPAL WATER DISTRICT

828 SEVENTH STREET • EUREKA, CALIFORNIA 95502

OFFICE 707-443-5018 FAX 707-443-5731

Website: www.hbmwd.com

CERTIFIED WATER LOSS AUDIT VALIDATION REPORT

PART A - PROVIDED BY THE VALIDATOR

Audit Information:

Utility: Humboldt CSD

PWS ID: 1210009

System Type: Potable

Utility Representation: Orrin Plocher, Tim Latham

Audit Period: Calendar 2018

Validation Date: 9/27/18

Sufficient Supporting Documents Provided: Yes

Call Time: 1:30pm

Validation Findings & Confirmation Statement:

Key Audit Metrics:

Data Validity Score: 54

Data Validity Bank (Level): Level III

ILI: 4.86

Apparent Loss: 12.68 gal/conn/day

(Infrastructure Leakage Index)

Real Loss: 66.41 gal/conn/day

Non-Revenue Water as Percent of Cost of Operating System: 16.0%

Certification Statement by Validator:

*This water loss audit report has been Level 1 Validated per the requirements of California Code of Regulations Title 23, Division 2, Chapter 7 and the California Water Code Section 10608.34. All recommendations on Volume Derivation and Data Validity Grades were incorporated into the water audit. **Yes***

If all recommendations regarding Volume Derivation and Data Validity Grades were NOT incorporated into the water audit, provide explanation below:

Validator Information:

Water Audit Validator: Chris Harris

A handwritten signature in black ink, appearing to read "Chris Harris", is written over a horizontal line.

Validator Qualifications: Water Audit Validator Certificate issued by the CA-NV Section of the AWWA



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CERTIFIED WATER LOSS AUDIT VALIDATION REPORT, CONT

PART B - PROVIDED BY THE UTILITY/AGENCY

Water Supplier Name: Humboldt CSD

Water Supplier ID Number: 1210009

Water Audit Period: Calendar 2018

Water Audit & Water Loss Improvement Steps:

Utility/Agency to provide steps taken in preceding year to increase data validity, reduce real loss and apparent loss as informed the annual validated water audit:

Humboldt CSD has taken the following actions to increase data validity, reduce real loss and apparent loss:

Data Validity:

1. HCSD has continued the effort to better correlate water production data vs. water consumption data.

Apparent Losses:

1. HCSD continued tracking monthly estimated volumes from hydrant flushing, continued tracking municipal uses of water, and coordinated with the Fire Department for monthly estimated water used.
2. HCSD has continued to replace aged steel lines, 660' were replaced this year.
3. HCSD calibrated all production meters this year to ensure accuracy.

Real Losses:

1. HCSD continues to proactively search for potential unknown intertie(s) with neighboring agency.
2. HCSD pressure tested various water main lines to assist with leak detection.
3. HCSD continued monitoring of 94 leak sensors currently in the water system.

Certification Statement by Utility Executive:

This water loss audit report meets the requirement of California Code of Regulations, Title 23, Division 2, Chapter 7, and the California Water Code Section 10608.34 and has been prepared in accordance with the method adopted by the American Water Works Association, as contained in the manual, Water Audit Loss Control Programs, Manual M36, Fourth Edition and in the Free Water Audit Software version 5.

Executive Name and Position (Print)

Tim Latham - Superintendent

Executive Signature and Date

T.L. 9/27/2019